



Armin Ronacher

# Armin Ronacher

@mitsuhiko

Flask / Sentry / Lektor

Find the Slides at  
[lucumr.pocoo.org/talks](http://lucumr.pocoo.org/talks)

*reach out to me!  
I want to talk :)*



sentry.io

**TypeError** react/lib/ReactCompositeComponent in updateComponent

● JAVASCRIPT-R3 | Cannot read property 'componentWillReceiveProps' of null | javascript

ASSIGNED



EVENTS

8

USERS

6

[✓ Resolve](#) [Snooze](#) [★](#) [Delete](#) [Create GitHub Issue](#)[Details](#) [Comments 0](#) [User Feedback 0](#) [Tags](#) [Related Events](#)[Share this event](#)

Event 97e62eee2b2d4506b4e7ea955054042b

May 9 2016 21:39:57 CEST | [JSON \(60.5 KB\)](#)[K](#) [Older](#) [Newer](#) [↗](#)

Last 24 Hours

Last 30 Days

First seen

When: a month ago

Date: April 1 2016 14:51:54 CEST

Release: 6590d03f1e38

Last seen

When: 2 hours ago

Date: May 9 2016 21:39:57 CEST

Release: a89626174115214fcf1e8d29bfc7018a287bfc64

## Message

TypeError: Cannot read property 'componentWillReceiveProps' of null

## Tags

browser = Chrome 50.0 device = Other environment = prod level = error logger = javascript  
os = Mac OS X 10.11.4 release = a89626174115214fcf1e8d29bfc7018a287bfc64  
sentry\_version = 1c5ae57c8a9c1dec5ebc83331d8e6572879ea2ad  
url = <https://app.getsentry.com/make-me-up-co/> user = id:43428

## User

## TypeError

Cannot read property 'id' of undefined

./app/views/projectDetails.jsx in **Constructor.onProjectChange** at line 90:59 [?](#)

```
85.     onProjectChange(projectIds) {  
86.         if (!this.state.project) return;  
87.         if (!projectIds.has(this.state.project.id)) return;  
88.  
89.         this.setState({  
90.             project: {...ProjectStore.getById(this.state.Project.id)}  
91.         });  
92.     },  
93.  
94.     identifyProject() {  
95.         let {params} = this.props;
```

Called from: ~/reflux-core/lib/PublisherMethods.js in **EventEmitter.eventHandler** [?](#)

./app/stores/projectStore.jsx in **Store.loadInitialData** at line 25:9 [?](#)



./app/views/organizationDetails.jsx in **Request.success** at line 100:21 [?](#)



./app/api.jsx in **Object.success** at line 61:20 [?](#)



Called from: ~/jquery/dist/jquery.js in **fire** [?](#)



84.114.93.8

iPod Touch 6G  
arm64iOS  
Version: 10.1.1

## TAGS

device | iPod Touch 6G

device.family | iPod

level | fatal

os | iOS 10.1.1

os.name | iOS

release | 1.0

Thread #0 ▾

(most recent call first)

Symbolicated

Unsymbolicated

App Only

Full

Raw

id | 0

name | n/a

was active | no

crashed | yes

## EXC\_BREAKPOINT

fatal error: Index out of range  
Index out of range

mach exception

EXC\_BREAKPOINT

SentryDemo 0x00071c7c main (AppDelegate.swift:13)

Called from: UIKit UIApplicationMain

SentryDemo 0x00070a4c @objc SentryDemo.ViewController.CrashIt (protocol&lt;&gt; -&gt; () (ViewController.swift)

SentryDemo 0x00070940 SentryDemo.ViewController.CrashIt (protocol&lt;&gt; -&gt; () (ViewController.swift:25)

## ProviderNotRegistered

google

sentry/auth/manager.py in get at line 23

```
20.         try:
21.             cls = self.__values[key]
22.         except KeyError:
23.             raise ProviderNotRegistered(key)
24.         return cls(key=key, **kwargs)
25.
26.     def exists(self, key):
```

key u'google'

kwargs {  
 u'domain': u'getsentry.com'  
}

Show more

sentry/models/authprovider.py in get\_provider at line 47

[+]

sentry/web/frontend/auth\_organization\_login.py in handle\_sso at line 95

[+]

sentry/web/frontend/auth\_organization\_login.py in handle at line 135

[+]

Called from: django/db/transaction.py in inner

sentry/web/frontend/base.py in dispatch at line 186

[+]

Called from: django/utils/decorators.py in bound\_func

## Breadcrumbs



Show 11 collapsed crumbs



xhr

GET /api/0/subscriptions/make-me-up-co/ [200]

21:39:46



sentry

TypeError: Cannot read property '\_currentElement' of null

21:39:46



xhr

GET https://t687h3m0nh65.statuspage.io/api/v2/incidents/unresolved.json?\_=1462822786179 [200]

21:39:46



ui.click

div.col-md-2.org-sidebar > div > ul.nav.nav-stacked > li > a

21:39:51



navigation

to

/organizations/make-me-up-co/teams/

21:39:51

from

/make-me-up-co/



sentry

TypeError: Cannot read property '\_currentElement' of null

21:39:51



ui.click

span.pull-right.org-selector.dropdown > a.dropdown-toggle > span

21:39:54



ui.click

ul.dropdown-menu-right.dropdown-menu > li.active > a

21:39:56



navigation

to

/make-me-up-co/

21:39:56

from

/organizations/make-me-up-co/teams/



error

TypeError: Cannot read property 'componentWillReceiveProps' of null

21:39:57

「 THE TWO PRODUCTS 」



**sentry vs 'getsentry'**

**sentry**

open source repo  
on-premise  
monthly releases

'getsentry'

billing & quotas  
depends on sentry  
hourly deploys

「 GROWING THE TEAM 」



2.5 to 25

more process  
keep processes light  
keep developers happy

2 locations

process in code  
natural for us because of  
the Open Source nature

# 「 THE GOALS 」



deploy in seconds  
be unable to screw up  
and if you do: instant rollbacks

tag a release once a month

「WORKFLOW」



commit



review



integration



deploy

requires good test coverage  
requires good local setup  
makes it easier for newcomers

「 COMMITTING 」



# lint on commit!

```
mitsuhiko at herzog in ~/Development/sentry on git:master+? workon sentry
$ git ci -am 'Performance improvements to the data scrubber.'
src/sentry/utils/data_scrubber.py:147:1: F401 'unused' imported but unused
```

On Prem: 1 Release / Month

Hosted: 5 Deployments / Day

April 9, 2016 – May 9, 2016

Period: 1 month ▾

## Overview

111 Active Pull Requests

104

Merged Pull Requests

7

Proposed Pull Requests

77 Active Issues

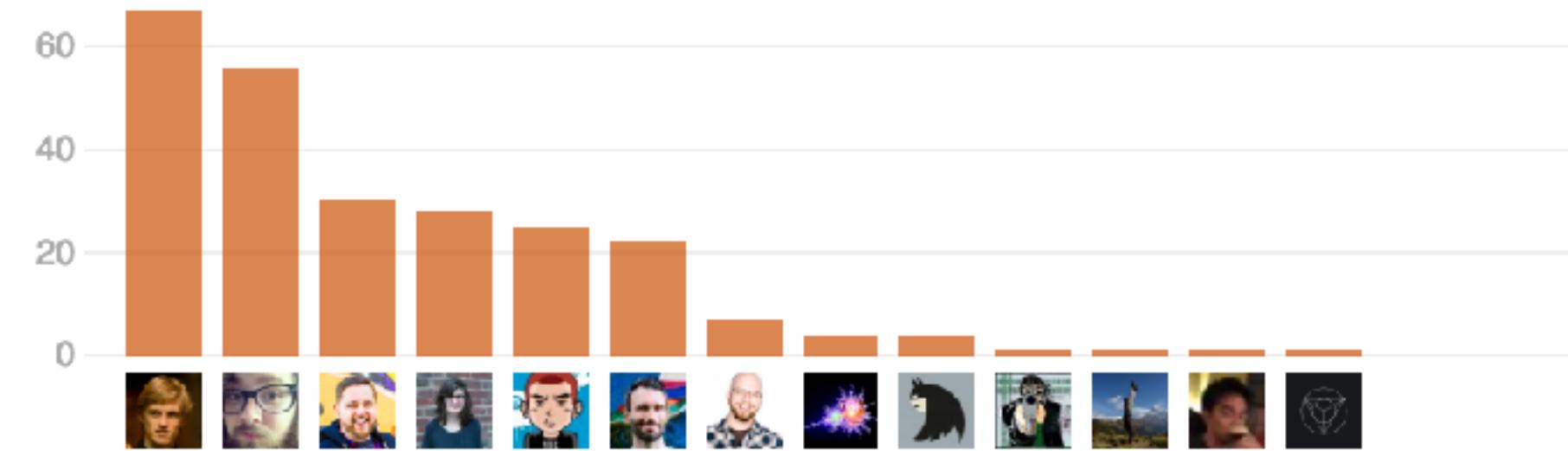
46

Closed Issues

31

New Issues

Excluding merges, **13 authors** have pushed **213 commits** to master and **247 commits** to all branches. On master, **251 files** have changed and there have been **8,385 additions** and **1,681 deletions**.



4 Releases published by 1 person

Published 8.3.2 28 days ago

Published 8.2.5 12 days ago

Published 8.3.3 12 days ago

Published 8.4.0 7 days ago

104 Pull requests merged by 12 people

master is stable



1. branch off master
2. pull request
3. merge

# all the pull requests

fix letter avatars in email #3059

Merged macqueen merged 2 commits into master from fix-email-avatars 22 days ago

Conversation 2 Commits 2 Files changed 7

macqueen commented 22 days ago

@getsentry/ui

fix letter avatars in email dfde8bc

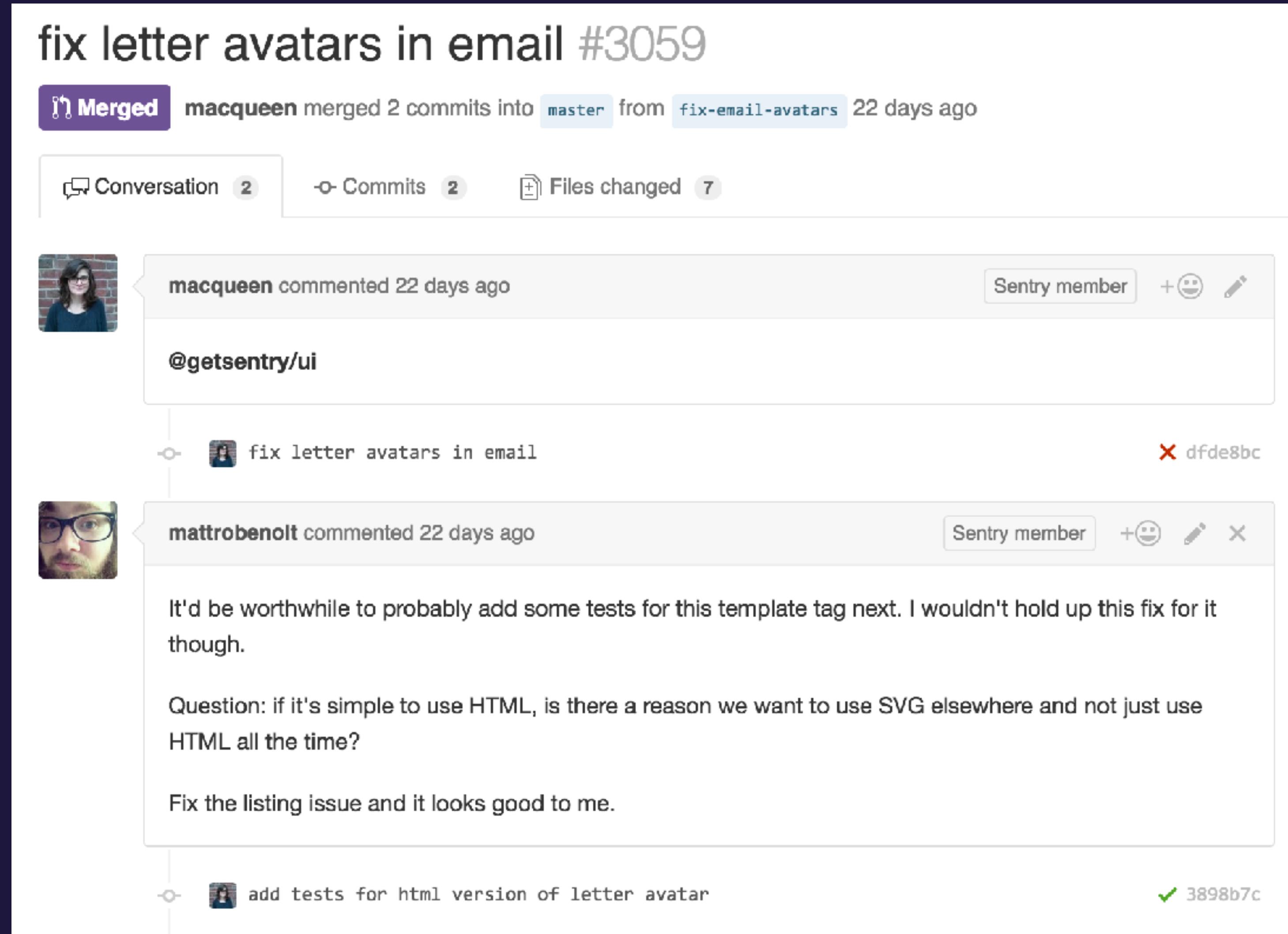
mattrobenolt commented 22 days ago

It'd be worthwhile to probably add some tests for this template tag next. I wouldn't hold up this fix for it though.

Question: if it's simple to use HTML, is there a reason we want to use SVG elsewhere and not just use HTML all the time?

Fix the listing issue and it looks good to me.

add tests for html version of letter avatar 3898b7c



**!! AVOID DOWNTIME !!**

# postgres <3

transactional ddl, concurrent  
indexes, cheap alter table add  
nullable columns

bidirectional compatibility

separation of state and connections

「CONTINUOUS TESTING」



sentry

travis-ci.org

test all the code

'getsentry'

[travis-ci.com](https://travis-ci.com)

test code relevant for us

「CONTINUOUS DELIVERY」



# FREIGHT

wait for travis > build > ship



Deploy

## ACTIVE DEPLOYS

docs/production#440 5c0c97a  
Started a few seconds ago – by armin master

## DEPLOY HISTORY



docs/production#439 5c0c97a  
Finished 2 hours ago – 6 min – by matt master

getsentry/production#2061 d3379cc  
Finished 3 hours ago – 18 min – by matt master

getsentry/production#2060 e9e7e4c  
Finished 3 hours ago – 18 min – by matt master

getsentry/production#2059 a896261  
Finished 5 hours ago – 3 min – by david@getsentry.com a89626174115214fcf1e8d29bfc7018a287bfc64

getsentry/production#2058 a896261  
Failed 6 hours ago – 17 min – by dcramer master

bidirectional  
communication with  
the main slack channel

00:48 ★ armin hubot deploy docs

00:48 Freight BOT [docs/production] Starting deploy #440 (5c0c97a)

[docs/production] Deploy #440 (5c0c97a) was cancelled after 26.41s

**dev** never matches **prod** :(

thus: **fast rollbacks!**  
(backwards + forwards compatibility)

# 「 CODE STRUCTURE 」



large systems are organisms

not all things will run the  
same code at the same time

data schema ~ code behavior

break up larger features

# feature flag it!

(we shipped some code to on-prem we backed out)

# 「REPO STRUCTURE」



move towards “monorepos”  
(but within what is possible with our tools)

*{not as mono as we would like}*

「 MOVING PARTS 」



keep **dev** basic: fewer parts

do not diverge **dev** from **prod**  
too much

virtual machines and docker  
are not an acceptable dev  
environment

# 「REPRODUCIBLE BUILDS」



pip freeze / yarn

nothing is more frustrating than a failed deploy  
because a dependency of a dependency of a  
dependency of a dependency pushed out a  
broken release

build once > ship to many

「 BINARY DEPS 」



OS X & “manylinux”

# C/C++/Rust Modules for Python

# Build in Docker on old CentOS

Debian / RHEL / Ubuntu

「 MONITOR FAILURES 」



associate failures to users

map support requests to failures

use sentry :-)

「 FRIENDLY ROBOTS 」



replace yourself!

# bots and webhooks

Commits on May 10, 2016

-  **Use more efficient sentry.utils.json instead of json**  
mattrobenolt committed 8 minutes ago
-  **Handle non-string platform value**  
dcramer committed 10 minutes ago
-  **getsentry/sentry@94475ea**  
getsentry-bot committed 13 minutes ago
-  **getsentry/sentry@1f19a52**  
getsentry-bot committed 18 minutes ago

# github hooks

Add more commits by pushing to the `move-south-migrations` branch on [getsentry/sentry](#).

 **All checks have failed** [Hide all checks](#)

2 failing checks

	<b>X</b> <a href="#">continuous-integration/travis-ci/pr</a> — The Travis CI build failed	<span style="float: right;">Required <a href="#">Details</a></span>
	<b>X</b> <a href="#">continuous-integration/travis-ci/push</a> — The Travis CI build failed	<span style="float: right;">Required <a href="#">Details</a></span>

 **Required statuses must pass before merging**  
All required [status checks](#) on this pull request must run successfully to enable automatic merging.

As an administrator, you may still merge this pull request.

 **Merge pull request** You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

# notify to communication hub

21:44 **jtcunning** and seeing as how we have 500k+ pulls, we're probably part of that list  
21:44 **Freight** BOT [getsentry/production] Successfully deployed #2060 (e9e7e4c) after 1082.96s  
21:44 **matt** Yeah, I have no way to gauge that scale.  
21:45 ☆ Like, that seems like a super crazy amount, haha

testing danger.systems

「 BETTER CLIMATE 」



the more robots,  
the better the integration,  
the smaller the fear of doing damage

If you can launch a feature on your first  
day of work that's motivating

# also: happy customers

Philipp Krenn (@xeraa) Following

@getsentry is a great tool to keep your sanity and is very responsive bug report to fix within 3h on friday night: [github.com/getsentry/sent...](https://github.com/getsentry/sent...)

Likes 4

8:51 PM - 13 Nov 2015

Reply to @xeraa @getsentry

bug report to fix within 3h on friday night: [github.com/getsentry/sent...](https://github.com/getsentry/sent...)

Alex MacCaw (@maccaw) Following

@getsentry just implemented a feature request in under an hour. That's got to be a record!

RETWEETS 4 LIKES 14

2:12 AM - 3 Feb 2016

Reply to @maccaw @getsentry

David Cramer @zeeg · Feb 3  
@maccaw dat continuous deployment

@ProductHunt [producthunt.com/tech/sentry](https://producthunt.com/tech/sentry) h/t @ckj 🎉

*reach out to me!  
I want to talk :)*